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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/663,298	09/15/2000	Helmut Bechtel	PHD 99.118	2905

7590 05/22/2002

US Philips Corporation
580 White Plains Road
Tarrytown, NY 10591

EXAMINER

WILLIAMS, JOSEPH L

ART UNIT	PAPER NUMBER
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2879

DATE MAILED: 05/22/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/663,298	BECHTEL ET AL.	
	Examiner	Art Unit	
	Joseph L. Williams	2879	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 15 September 2000.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-7 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ . |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>5</u> . | 6) <input type="checkbox"/> Other: _____ . |

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by T. Shinkai et al. ("Improvement of Luminous Efficiency and Phosphor Lifetime in Barrier Discharge Plasma Display Panel"), of record by Applicant.

Regarding claim 1 Shinkai et al. discloses in figure 1 (note there are no figure numbers provided), the matrix structure, a plasma picture screen with a front plate comprising a glass plate on which a dielectric layer and a protective layer are provided, a back plate, a number of gas-filled plasma cells arranged between the plates and separated by partitioning walls (not shown), and a plurality of electrodes on the front plate and back plate for generating corona discharges, characterized in that a UV light reflecting layer is provided on the protective layer.

Regarding claim 7 Shinkai et al. discloses in figure 1 that the UV light reflecting layer covers the protective layer completely.

Claims 1, 2, and 7 are rejected under 35 U.S.C. 102(e) as being anticipated by Yoo (US 6,329,751 B1).

Regarding claim 1 Yoo ('751) discloses in figures 3 and 4 and in column 3, lines 19 through column 4, line 11, a plasma picture screen with a front plate (32) comprising

a glass plate on which a dielectric layer (53) and a protective layer (61) are provided, a back plate (31), a number of gas-filled plasma cells (33) arranged between the plates and separated by partitioning walls (45), and a plurality of electrodes (41, 43, 44) on the front plate and back plate for generating corona discharges, characterized in that a UV light reflecting layer (62) is provided on the protective layer (61).

Regarding claim 2 Yoo ('751) discloses that the UV light reflecting layer can be made of MgO.

Regarding claim 7 Yoo ('751) discloses that the UV light reflecting layer (62) covers the protective layer (61) completely.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 3-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoo (US 6,329,751) in view of Mitamura et al. (US 6,149,967).

Regarding claim 3, Yoo ('751) discloses all of the claimed limitations except for the claimed particle diameter of the MgO layer (UV layer).

Within the field of endeavor, it is desirable for the particle diameter size of the MgO layer to be large per se for the purpose of applying the MgO layer homogeneously.

Further regarding claim 3, Mitamura ('967) teaches in column 2, lines 4-11 that the particles of the MgO layer have a diameter of 30 to 300 nm for the purpose of applying the MgO layer homogeneously.

Hence it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the MgO layer of Mitamura in the plasma display of Yoo for the purpose of applying the MgO layer homogeneously.

Regarding claim 4, Mitamura ('967) teaches in column 9, lines 25-27 that the thickness of the layer is not more than 10 microns.

The reason for combining is the same as claim 3 above.

Regarding claim 5, Yoo ('751) discloses all of the claimed limitations except for the claimed particle diameter of the MgO layer (UV layer).

Within the field of endeavor, it is desirable for the particle diameter size of the MgO layer to be smaller for the purpose of applying the MgO layer by a less expensive heat treatment process, as opposed to a more expensive vacuum process.

Further regarding claim 5, Mitamura ('967) teaches in column 9, line 15 through column 10, line 10 that the MgO layer comprises agglomerates of particles having particle diameters of 5 to 100 nm for the purpose of applying the MgO layer by a less expensive heat treatment process.

Hence it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the MgO layer of Mitamura in the plasma display of Yoo for the purpose of applying the MgO layer by a less expensive heat treatment process.

Regarding claim 6, Mitamura ('967) teaches in column 9, lines 25-27 that the thickness of the layer is not more than 10 microns.

The reason for combining is the same as for claim 5 above.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph L. Williams whose telephone number is (703) 305-1670. The examiner can normally be reached on M-F (6:30 AM-3:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar D. Patel can be reached on (703) 305-4794. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7382 for regular communications and (703) 308-7382 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

JLW
May 14, 2002


Vip Patel
Primary Examiner
Art Unit 2879